

An organic broad spectrum insecticide concentrate with contact and repelling action used as a full cover spray for the control of insects as listed on roses, fruit trees, vegetables and ornamentals.

'n Organiese breëspektrum konsentraat insekdoder met kontak dodende en afwerende aksie, toegedien as 'n volle dekbepuiting vir die beheer van insekte soos gelys op rose, vrugtebome, groente en sierplante.

Registration Holder and Distributed by:  
**Makhro Home And Garden (Pty) Ltd**

Reg. Nr. 2014 / 283523 / 07  
18 Viben Street, Brackenfell 7560  
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MAKHRO HOME AND GARDEN (PTY) LTD

# ORGANICIDE PLUS

Reg. Nr. L9558 – Act 36 of 1947

## INSECTICIDE GROUP CODES 26 / 26 / 3 INSEKODERGRGROEPKODE

### ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

Conola oil	250.0 g / ℓ	Konola olie
Garlic extract from Allium sativa	642.0 g / ℓ	Knoffel ekstrak van Allium sativa
Pyrethrum extract from flowers of chrysanthemum cinerariaefolium	14.0 g / ℓ	Piretriene ekstrak van Chrysanthemum cinerariaefolium blomme
Piperonyl butoxide (synergist)	50.0 g / ℓ	Piperonielbutoksied (sinergis)



HARMFUL  
SKADELIK



Yellow band

Geel band

# MAKHRO ORGANICIDE PLUS

L9558 – Act 36 of 1947

Active Ingredients:

Canola oil 250 g / ℓ  
Garlic extract from *Allium sativa* 642 g / ℓ  
Pyrethrins extract from flowers of *Crysanthemum cinerariaefolium* 14 g / ℓ  
Piperonyl butoxide (synergist) 50 g / ℓ

Registration Holder: Makhro Home and Garden (Pty) Ltd (2014/283523/07)



Office No: 021 981 4011  
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## ALLOW 2 DAYS BETWEEN LAST APPLICATION AND HARVEST OF EDIBLE CROPS

### WARNINGS:

- Handle with care.
- Can cause skin or eye irritation.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feedstuffs in a cool dry place
- Not suitable for cooking.
- Toxic to fish.
- **Re-entry:** Do not enter treated field until deposit has dried.
- In case of poisoning, call a doctor and make this label available to him/her.

### PRECAUTIONS:

- Do not inhale spray mist. Avoid contact with eyes.
- Wear rubber gloves and face shield when handling the concentrate.
- Wear rubber gloves during application.
- If skin or eye contact occurs, flush with copious amounts of clean water.
- Do not eat, drink or smoke while mixing or before washing hands.
- Keep container tightly closed when not in use.
- Avoid excessive inhalation of spray drift.
- Wash with soap and water after use.
- Prevent spray drift onto crops, water sources, dams and rivers and areas not under treatment.
- Rinse empty container three times with a volume of water equal to at least 10% of that of the content of the container. Add the rinsing to the contents of the spray tank.
- Destroy empty container and do not use for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; compatibility with other substances not indicated on the label and the appearance of resistance of the insect against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.

### SYMPTOMS AND SIGNS OF POISONING:

A stuffy, runny nose and scratchy throat from inhalation of partly purified pyrethrum extract is the most common adverse effect of these agents. Asthmatic wheezing may be precipitated by exposure of predisposed individuals. Sudden bronchospasm, swelling of oral and laryngeal mucous membranes and shock (anaphylaxis) have been reported after pyrethrin inhalation. Delayed appearance of dyspnoea, cough and fever, with patchy lung infiltrates on X-ray, suggest hypersensitivity pneumonitis. Nervous irritability, tremors, and ataxia have occurred rarely in persons who have had massive inhalation exposure to pyrethrins.

### FIRST AID TREATMENT:

**General:** Take off all contaminated clothing immediately.

**Eye contact:** Rinse eyes immediately with copious amount of water.

**Skin contact:** Wash contaminated skin with soap and water.

**Inhalation:** Move person to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

**Ingestion:** Ingestion of a small amount of pyrethrins is not likely to cause poisoning. If large amounts of a pyrethrin formulation have been ingested the stomach and intestine must be evacuated. Call a physician immediately. Never give anything by mouth to an unconscious person.

### NOTE TO PHYSICIAN:

For life-threatening allergic reaction to pyrethrins (severe asthma or anaphylaxis), give 0.1 to 0.5 ml of 1:1000 adrenalin intramuscularly, or slowly intravenously. If large amounts of a pyrethrin formulation is ingested and victim is alert and respiration is not depressed, give Syrup of Ipecac, followed by 1 – 2 glasses of water, to induce vomiting (adult and children 12 years and older: 30 ml, children under 12 years: 15 ml).

**Caution:** Observe victim closely after administering Ipecac. If consciousness level declines or vomiting has not occurred in 15 minutes, intubate the stomach immediately. Following emesis, have victim drink a suspension of 30 – 50 g activated charcoal in 90 – 120 ml water to limit absorption of toxicant remaining in the gut.

### RESISTANCE WARNING:

For resistance management, **MAKHRO ORGANICIDE PLUS** is a group code 3 insecticide. Any insect population may contain individual naturally resistant to **MAKHRO ORGANICIDE PLUS** and other group 3 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be control by **MAKHRO ORGANICIDE PLUS** or any other group code 3.

### To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group codes. Alternate with products from different insecticide group codes.
- Integrate the control methods into insect control programmes. For specific information on resistance management contact the registration holder of this product.

### USE RESTRICTIONS:

Not suitable for spraying over surfaces like carpets, tile etc. covers surfaces with newspaper if spraying of plants in containers is necessary. Indoor use not recommended. Garlic becomes odourless on plants, but takes a while for the odour to disappear from other surfaces.

Do not apply just prior to or during pollination, garlic might repel bees and other pollinating insects and, therefore, adversely affects pollination.

**DO NOT APPLY DURING THE HEAT OF THE DAY, OR WHEN TEMPERATURES EXCEED 28 °C. APPLY PREFERABLY EARLY MORNING BEFORE 9 AM OR EARLY EVENING AFTER 5 PM DURING THE HOT MONTHS. DO NOT USE HIGHER DOSAGE RATES THAN INDICATED AS PHYTOTOXICITY AT HIGHER RATES ARE UNKNOWN.**

**DIRECTIONS FOR USE:** Use only as indicated.

### COMPATIBILITY:

Before using in combination with any pesticide, first test on a small scale. In case of any uncertainties, contact the registration holder or supplier.

**CERTIFIED ORGANIC FARMING:**

**MAKHRO ORGANICIDE PLUS** is authorised for use in organic agriculture (gardening) by ECOCERT SA F-32600 and should only be used in combination with other pesticides approved for organic farming.

**MIXING INSTRUCTIONS:**

**SHAKE OR STIR CONTAINER WELL BEFORE USE.** Mix measure quantity of **MAKHRO ORGANICIDE PLUS** concentrate first with half the amount of water. Stir for ± 30 seconds and add the stirred pre- **MAKHRO ORGANICIDE PLUS** to the spray tank while it is filled with water to the desired quantity. After mixing concentrate, agitate again before and during spraying to prevent settling. Use the spray mixture without delay and do not allow to stand for prolonged periods, e.g. overnight. If rain occurs within 12 hours after application, treatment has to be repeated for best results.

**TREE VOLUME SPRAY:**

The volume of water to be applied per hectare in deciduous fruit orchards is calculated according to the Tree Volume Formula as described by Unrath (refer Ras MCD 1986, effective application of chemical agents by the correct use of spraying machinery in orchards and vineyards. Deciduous Fruit Grower, Vol 36. November 1986)

The formula is as follows:  $\frac{\text{tree height} \times \text{tree diameter} \times 937}{\text{Row width}} = \text{Volume water to be applied/ha}$

The measurements used in the formula are those of the tree in full leaf cover. Because deciduous fruit trees are not always in full leaf the water volume to be applied per hectare at the earlier growth stages is as follows:

From green-tip to 30% blossom - 60% of HV to be applied  
 From ca.full blossom to ca. November - 80% HV to be applied  
 From ca. beginning of December - 100% of HV to be applied.

**EFFECTIVE FOR KILLING AND REPELLING INSECTS**

CROP / INSECT	DOSAGE	REMARKS
<b>FRUIT TREES</b> Aphids	5 ml / ℓ water	Apply as a high pressure, full cover when first sign of pest are detected. Do not apply before 80% petal drop. Ensure thorough coverage of plants to be protected. Repeat application at 5 day interval if necessary with a maximum of 3 within a period of 10 days.
<b>VEGETABLE</b> American bollworm Aphids Astylus beetle Whitefly	5 ml / ℓ water	Apply as a high pressure, full cover spray when first sign of pests are detected. Ensure thorough coverage of plants to be protected. Use 300 - 1000 liter spray mixture per hectare depending on density and size of crop. Commence spraying for American bollworm when eggs and young larvae are noticed. Repeat applications at 5 days intervals with a maximum of 3 within a period of 10 days. In the case of whitefly, apply early morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of leaves in the case of whitefly control.
<b>ORNAMENTALS</b> Aphids Whitefly Thrips	3 ml / ℓ water	Apply as a high pressure, full cover spray when first sign of pests are d on detected. Use 300 – 1000 liter spray mixture per hectare depending on density and size of crop. Ensure thorough coverage of plants to be protected. Repeat applications at 5 day intervals with a maximum of 3 within a period of 10 days. In the case of whitefly, apply early in the morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of the leaves in the case of whitefly control.
<b>ROSES</b> Ants	5 ml / ℓ water	Drench ant nests by pouring diluted spray mixture down nest entrances. Depending on the size of the nest, up to 5 liters of mixture can be poured down the nest. Treat all nest entrances round the main stem of plant. Repeat when ant activity re-occurs.
American bollworm Aphids Thrips	5 ml / ℓ water	Apply as a high pressure, full cover spray when first sign of pests are detected. Use 300 – 1000 liter spray mixture per hectare depending on density and size of crop. Ensure thorough coverage of plants to be protected. Commence spraying for American bollworm when eggs and young larvae are noticed. Repeat applications at 5 days intervals with a maximum of 3 within a period of 10 days. Ensure thorough coverage of the underside of leaves in the case of red spider mite control.
Red spider mite	30 ml / ℓ water	
Astylus	5 ml / ℓ water	Apply as a high pressure, full cover spray when adult beetles are actively feeding. Use 300 – 1000 liter mixture per hectare depending on density and size of crop. Ensure thorough coverage of the plants and direct contact with adult beetles for best results. Repeat when necessary. Chafer and flower beetle will be controlled at the same dosage rate as for MCR beetle if present at application.
CMR beetle	10 ml / ℓ water	
<b>SOIL PESTS</b> Ants (Garden)	5 ml / ℓ water	Drench ant nests by pouring diluted spray mixture down nest entrance until flooded. Depending on the size of the nest, up to 5 liters of mixture can be poured down the nest. Repeat when any activity re-occurs.
Wood-eating termites	5 ml / ℓ water	Remove crust formed on surface of soil where nest activity is with a fork or spade to expose entrances of termite nest in soil. Pour diluted spray mixture down nest entrances until flooded. Repeat when termite activity re-occurs.
<b>MINOR CROPS</b> <b>Berries, Cherries, Nuts, Pomegranates, Figs</b>  Ants, Aphids, Astylus beetle, CMR beetle, Thrips, Red spider mite, White fly	5 ml / ℓ water	Apply as a high pressure, full cover spray when first sign of pests are detected. Ensure thorough coverage of plants to be protected. Use 300 to 1000 litre spray mixture per hectare depending on density and size of crop. Commence spraying for American bollworm when eggs and young larvae are noticed. Repeat applications at 5 day intervals with a maximum of 3 within a priod of 10 days. In case of whitefly, apply early morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of leaves in the case of whitefly control.